CW#41: Area/Perimeter in the Coordinate Plane Pt. 1

Geometry

Due: November 11th, 2015

Name:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ TP:\_\_\_\_\_

Directions: Complete all problems in your notebook!

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| You will be able to find the area of shapes on a coordinate grid. | |
| Criteria for Success: Did you…   * Plot lines on a graph * Identify the shape * Use the correct area formula * Determine the side lengths (or base and height) * Solve! * Examine your answer: Does it answer the question? Does it make sense? Include units? | |
| 1. What is the area of the region bound by , , and ? | 2. What is the area of the region bound by , , y=10, and x=2? |
| 3. Plot line k, . What is the area bound by line k and the x and y-axis? | 4. What is the area of the region bound by , , and ? |
| Break 1: Lines that are y= any constant, are always…  How are you going to remember that? | Break 2: Explain the process of graphing a line. |
| 5. What is the area of the region bound by y=5, x=2, x=-4 and y=2? | 6. What is the area of the region bound by , , and ? |
| 7. What is the area bound by the x & y-axis and the line ? | 8. What is the area bound by the x & y-axis and the line ? |
| 9. A triangle is formed by the intersections of , the y-axis and . What is the area of the triangle? | 10. A square has an area of 49units2. If the square is bound by the x and y- axis and the line y=6, what is the equation of the line that forms the last side? |
| 11. The area of a rectangle is 80 units2. If the x and y axis make up two of the sides, what are the possible equations for the remaining sides? | 12. A region is bound by the lines ,  , and the x- axis. What is the area of the bounded region? |
| 13. What is the area bound by the lines ,  , and ? | 14. What is the area bound by the lines , and ? |
| Break 3: In the context of these problems, what does the word bound mean? | Break 4: What does it mean when the lines intersect? |

Review: ANNOTATE THE PROBLEMS FULLY!

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